

L Number	Hits	Search Text	DB	Time stamp
1	9	(produc\$4 creat\$4 generat\$4 provid\$4) with (stylus pen) same right with click with mouse near6 ( event button)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:22
2	8	(produc\$4 creat\$4 generat\$4 provid\$4) with (stylus pen) with mouse near6 ( event button) and right near5 click\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:24
4	1	((produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pen) with mouse near6 ( event button) and (stylus pen) same right near5 click\$4 ) and context with help	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:25
5	4	((produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pen) with mouse near6 ( event button) and (stylus pen) same right near5 click\$4 ) and context	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:26
3	16	(produc\$4 creat\$4 generat\$4 provid\$4) same (stylus pen) with mouse near6 ( event button) and (stylus pen) same right near5 click\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:26
6	284361	context withsensitive help and right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:27
7	1	context with sensitive near5 help and right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:27
8	1	context with help and right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:27
9	1	contex\$5 with help and right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:27
10	5	contex\$5 with right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:29
11	8	select\$4 with (list item command help menu contex\$5) with right near5 click\$4 with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:30
12	8	select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:35

13	7	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and rout\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:24
14	1	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and re near routing	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:39
15	1	(( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and re near routing) and (transfer\$4 transmit\$6 communicat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 12:39
16	1	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and ( first second) near4 application	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:25
17	1	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same ( first second) near4 application	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:27
18	1	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same ( first second) near4 (operating application)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:27
19	5	( select\$4 with (list item command help menu contex\$5) with right near5 (click\$4 tap\$5) with (stylus pen)) and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:29
20	1	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:31
21	0	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application) same execut\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:31
22	1	"20030107607" and (forward\$4 pasing transmit\$4 transfer\$4 communicat\$4) same (operating application) and execut\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:44
23	1	(stylus pen) near5 helper near4 module	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:44
24	1	(stylus pen) near5 helper and module	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:44
25	2	(stylus pen) with helper and module	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 13:50

26	2	"20010019336"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:08
27	83	(style pen ) with input and predetermined near3 amount near3 time same select\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:10
28	5	(style pen ) with input and select\$4 with within with predetermined near3 amount near3 time	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:11
29	5	(style pen ) with input and select\$4 with within with predetermined near3 amount near3 (time period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:11
30	84	(style pen ) with input and select\$4 with within with predetermined near3 (amount time period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:12
32	12	((style pen ) with input and select\$4 with within with predetermined near3 (amount time period) ) and (respons\$4 receiv\$4) with input with (pen stylus) and determin\$4 same select\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:14
31	48	((style pen ) with input and select\$4 with within with predetermined near3 (amount time period) ) and (respons\$4 receiv\$4) with input and determin\$4 same select\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:18
33	4	((style pen ) with input and select\$4 with within with predetermined near3 (amount time period) ) and (respons\$4 receiv\$4) with input and determin\$4 same select\$4 ) and (hid\$4 dismiss\$4 remov\$4 ) with menu	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:32
34	2	5611050.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:50
35	0	5611050.pn. and local\$4 with (id identif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:34
36	0	5611050.pn. and local\$4 same (id identif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:34
37	2	5611050.pn. and (global local\$4 user) and (id identif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:34
38	2	5611050.pn. and (global local\$4 user) same (id identif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:36

39	861	(pda wearable) and ( translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:38
40	861	((pda wearable) and ( translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:39
41	443	(((pda wearable) and ( translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:41
42	2	(((pda wearable) and ( translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6) ) and (translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same local	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:42
43	1	((((pda wearable) and ( translat\$4 mapping) with (context attributes global local\$4 user) same (id identif\$4)) not abbott.in.) and indicat\$4 with (attribute value propert\$4 parameters character\$6) ) and (translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) and local with (id identifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:43
44	104	(translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) and local with (id identifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:43
45	4	(translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same local with (id identifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:46
46	208	(translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same (id identifier)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:47
47	8	( (translat\$4 mapping) with indicat\$4 with (attribute value propert\$4 parameters character\$6) same (id identifier)) and context with attribut\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 14:47
48	1	5611050.pn. and (mapping translat\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:04
49	12	generat\$4 with right near5 (button click) same (pen stylus)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:43
50	3	(generat\$4 with right near5 (button click) same (pen stylus)) and select\$4 same menu	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:42
51	2	nguyen.in. and generat\$4 with right near5 (button click) same (pen stylus)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:44

52	2	nguyen.in. and generat\$4 with right near5 (button click) and (pen stylus)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:44
53	126	generat\$4 and right near5 (button click) with (pen stylus)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:45
54	8	generat\$4 same right near5 (button click) with (pen stylus)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:46
55	0	( generat\$4 and right near5 (button click) with (pen stylus)) and select\$4 with menu and predetermin\$7 with (time period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 15:47
56	13	( generat\$4 and right near5 (button click) with (pen stylus)) and select\$4 with menu and predetermin\$7 with (time period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 16:04
57	0	right near2 click same (simulat\$4 assimulat\$4) with (stylus pen) and select\$4 with menu and predetermin\$7 with (time period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 16:06
58	2	right near2 click same (simulat\$4 assimulat\$4) with (stylus pen)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/18 16:06

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Relevance scale **1 Interaction techniques for ambiguity resolution in recognition-based interfaces**

Jennifer Mankoff, Scott E. Hudson, Gregory D. Abowd

November 2000 **Proceedings of the 13th annual ACM symposium on User interface software and technology**Full text available:  pdf(152.19 KB) Additional Information: full citation, references, citings, index terms**2 Characterizing tool use in an interactive drawing environment**

Robert St. Amant, Thomas E. Horton

June 2002 **Proceedings of the 2nd international symposium on Smart graphics**Full text available:  amant.pdf(248.45 KB) Additional Information: full citation, abstract, references, citings, index terms

The metaphor of tool use for describing the interaction between a human and a computer is pervasive in user interface design. The basic concept of tool use, however, is difficult to define precisely, for HCI purposes or in general. In this paper we argue that a close examination of physical tool use can improve the design of interactive software. We describe a drawing application, HabilisDraw, that incorporates some of the properties we associate with physical tools but are not commonly found in ...

**Keywords:** drawing, interface design, metaphors, tool use**3 Flatland: new dimensions in office whiteboards**

Elizabeth D. Mynatt, Takeo Igarashi, W. Keith Edwards, Anthony LaMarca

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**Full text available:  pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

**Keywords:** Flatland, light-weight interaction, pen-based computing, ubiquitous computing, whiteboards

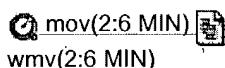
**4 Stylus input and editing without prior selection of mode**

Eric Saund, Edward Lank

November 2003 **Proceedings of the 16th annual ACM symposium on User interface software and technology**Full text available:  pdf(423.04 KB)

Additional Information:





[full citation](#), [abstract](#), [references](#), [index terms](#)

wmv(2:6 MIN)

This paper offers a solution to the *mode* problem in computer sketch/notetaking programs. Conventionally, the user must specify the intended "draw" or "command" mode prior to performing a stroke. This necessity has proven to be a barrier to the usability of pen/stylus systems. We offer a novel *Inferred-Mode* interaction protocol that avoids the mode hassles of conventional sketch systems. The system infers the user's intent, if possible, from the properties of the pen trajectory and ...

**Keywords:** command, draw, inferred-Mode protocol, inkscribe, mode, pen, sketch, stylus

## 5 Interaction and modeling techniques for desktop two-handed input

Ken Hinckley, Mary Czerwinski, Mike Sinclair

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**

Full text available: [pdf\(212.66 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**Keywords:** TouchMouse, input devices, map navigation, tablests, three-state model, touchpads, two-handed input

## 6 The efficiency of multimodal interaction for a map-based task

Philip Cohen, David McGee, Josh Clow

April 2000 **Proceedings of the sixth conference on Applied natural language processing**

Full text available: [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)  
[Publisher Site](#)



This paper compares the efficiency of using a standard direct-manipulation graphical user interface (GUI) with that of using the QuickSet pen/voice multimodal interface for supporting a military task. In this task, a user places military units and control measures (e.g., various types of lines, obstacles, objectives) on a map. Four military personnel designed and entered their own simulation scenarios via both interfaces. Analyses revealed that the multimodal interface led to an average 3.5-fold ...

## 7 Designing better visual interfaces: Smooth Morphing of Handwritten Text

Conrad Pomm, Sven Werlen

May 2004 **Proceedings of the working conference on Advanced visual interfaces**

Full text available: [pdf\(341.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



There are several approaches for pen-based systems to improve legibility of handwritten text, e.g. smoothing the strokes composing the characters and words. A very challenging solution is the smooth morphing approach: handwritten strokes are transformed gradually into perfectly legible characters provided by a previously executed handwriting recognition process. In this paper we present our approach to a smooth real-time metamorphosis of handwritten characters into clean typography. Our main con ...

**Keywords:** Tablet PC, animated interfaces, online handwriting recognition, stroke morphing

## 8 Liveboard: a large interactive display supporting group meetings, presentations, and remote collaboration

Scott Elrod, Richard Bruce, Rich Gold, David Goldberg, Frank Halasz, William Janssen, David Lee, Kim McCall, Elin Pedersen, Ken Pier, John Tang, Brent Welch

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**



Full text available:  pdf(1.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the Liveboard, a large interactive display system. With nearly one million pixels and an accurate, multi-state, cordless pen, the Liveboard provides a basis for research on user interfaces for group meetings, presentations and remote collaboration. We describe the underlying hardware and software of the Liveboard, along with several software applications that have been developed. In describing the system, we point out the design rationale that was used to make various c ...

**Keywords:** collaboration, cordless stylus, gestural interface, group work, interactive display, large-area display

**9 User tests and multimodal gesture: Capturing user tests in a multimodal, multidevice informal prototyping tool** 

Anoop K. Sinha, James A. Landay

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**

Full text available:  pdf(413.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Interaction designers are increasingly faced with the challenge of creating interfaces that incorporate multiple input modalities, such as pen and speech, and span multiple devices. Few early stage prototyping tools allow non-programmers to prototype these interfaces. Here we describe CrossWeaver, a tool for informally prototyping multimodal, multidevice user interfaces. This tool embodies the informal prototyping paradigm, leaving design representations in an informal, sketched form, and create ...

**Keywords:** informal prototyping, mobile interface design, multidevice, multimodal, pen and speech input, sketching

**10 Sketching in 3D** 

Robert Zeleznik

November 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 4

Full text available:  pdf(488.44 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Of the numerous changes to the implements for creating 2D images and 3D models, one of the most radical has been the recent adoption of WIMP interfaces. Ironically, there is good reason to believe that WIMP interaction for 3D modeling is actually inferior to the real-world interfaces (pencils, large sheets of paper, clay, paint palettes) that it supplants. In fact, WIMP interaction's principal benefit is its straightforward integration with computer 3D model representations which have many advan ...

**11 Systems Issues: Rajicon:: remote PC GUI operations via constricted mobile interfaces** 

Norman Makoto Su, Yutaka Sakane, Masahiko Tsukamoto, Shojiro Nishio

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**

Full text available:  pdf(1.18 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As of now, it is not uncommon for one to use multiple computers in separate places such as at home, office or school. A number of applications currently exist to allow a user to easily access and control these computers remotely via a notebook computer or web page. Unfortunately, even with such solutions, it is rather inconvenient, for example, to try accessing your computer while walking downtown or riding a train. On the other hand, considering that cellular phones have been accepted as multi- ...

**Keywords:** GUI, cellular phone, mobile device, remote access

**12 Late breaking result papers: Comparing the immediate usability of graffiti 2 and virtual**

**keyboard**

Thomas Költringer, Thomas Grechenig

April 2004 **Extended abstracts of the 2004 conference on Human factors and computing systems**Full text available:  pdf(289.96 KB) Additional Information: full citation, abstract, references, index terms

This paper presents the results of an empirical study on the input system of the most frequent PDA operating system, PalmOS from Palm Inc. In an experiment with novice users we compared the stroke based alphabet Graffiti 2 with the Virtual Keyboard and the predictive add-on WordComplete from CIC Software for Graffiti 2. We found that although text input with Graffiti 2 was significantly slower and generated a higher error rate (9 wpm; 19%) than text input with the Virtual Keyboard (13 wpm; 4%), ...

**Keywords:** WordComplete, graffiti 2, mobile computing, pen-based computing, stylus input, virtual keyboard

**13 Input Devices: Movement model, hits distribution and learning in virtual keyboarding**

Shumin Zhai, Alison Sue, Johnny Accot

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**Full text available:  pdf(930.16 KB) Additional Information: full citation, abstract, references, citations, index terms

In a ten-session experiment, six participants practiced typing with an expanding rehearsal method on an optimized virtual keyboard. Based on a large amount of in-situ performance data, this paper reports the following findings. First, the Fitts-digraph movement efficiency model of virtual keyboards is revised. The format and parameters of Fitts' law used previously in virtual keyboards research were incorrect. Second, performance limit predictions of various layouts are calculated with the new m ...

**Keywords:** Fitts' law, expanding rehearsal, graphical keyboard, learning, memory, mobile computing, on screen keyboard, skill acquisition, soft keyboard, text entry, text input, virtual keyboard

**14 The design and evaluation of a high-performance soft keyboard**

I. Scott MacKenzie, Shawn X. Zhang

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**Full text available:  pdf(805.96 KB) Additional Information: full citation, references, citations, index terms

**Keywords:** Fitts' law, digraph probabilities, linguistic models, mobile systems, pen input, soft keyboards, stylus input

**15 DataTiles: a modular platform for mixed physical and graphical interactions**

Jun Rekimoto, Brygg Ullmer, Haruo Oba

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  pdf(931.24 KB) Additional Information: full citation, abstract, references, citations, index terms

The DataTiles system integrates the benefits of two major interaction paradigms: graphical and physical user interfaces. Tagged transparent tiles are used as modular construction units. These tiles are augmented by dynamic graphical information when they are placed on a sensor-enhanced flat panel display. They can be used independently or can be combined into more complex configurations, similar to the way language can express complex concepts through a sequence of simple words. In this ...

**Keywords:** graphical user interfaces, interaction techniques, radio-frequency identification tags, tangible user interfaces, visual language

**16 A social sense of time: Sharing and building digital group histories**

Chia Shen, Neal B. Lesh, Frederic Vernier, Clifton Forlines, Jeana Frost

November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

Full text available:  pdf(7.06 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Organizations, families, institutions evolve a shared culture and history. In this work, we describe a system to facilitate conversation and storytelling about this collective past. Users explore digital archives of shared materials such as photographs, video, and text documents on a tabletop interface. Both the software and the interface encourage natural conversation and reflection. This work is an application of our ongoing research on systems for multiple, co-present users to explore digital ...

**Keywords:** digital story sharing, group history, single-display groupware

**17 Tangible user interaction using augmented reality**

Hannah Slay, Bruce Thomas, Rudi Vernik

January 2002 **Australian Computer Science Communications , Third Australasian conference on User interfaces - Volume 7**, Volume 24 Issue 4

Full text available:  pdf(1.18 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a novel use of augmented reality for the visualisation of virtual objects as part of the move towards pervasive computing. It uses fiducial markers as switches to "toggle" the displayed properties of the virtual objects. Using collision detection, fiducial markers are also used to track and select nodes within virtual objects. This research uses the ARToolkit Version 2.33 and acts as a component within the DSTO's InVision framework.

**Keywords:** augmented reality, fiducial markers, pervasive computing

**18 Interactive Design: A visual language for sketching large and complex interactive designs**

James Lin, Michael Thomsen, James A. Landay

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**

Full text available:  pdf(743.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Informal, sketch-based design tools closely match the work practices of user interface designers. Current tools, however, are limited in the size and complexity of interaction that can be specified. We have created an advanced sketch-based visual language that allows for easy prototyping of large, complex interactive designs. In its current embodiment in the denim web design tool, the visual language allows designers to sketch reusable components for recurring page elements, such as navigation b ...

**Keywords:** denim, user interface design, visual language, web design

**19 A comparison of reading paper and on-line documents**

Kenton O'Hara, Abigail Sellen

March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:

Additional Information:

[pdf\(1.12 MB\)](#)[full citation, references, citings, index terms](#)**Keywords:** Web, design, digital documents, digital libraries, hypertext, paper, reading**20 Joint session with UIST: A system for fast, full-text entry for small electronic devices**

Saied B. Nesbat

November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**Full text available:  [pdf\(493.66 KB\)](#) Additional Information: [full citation, abstract, references, index terms](#)

A novel text entry system designed based on the ubiquitous 12-button telephone keypad and its adaptation for a soft keypad are presented. This system can be used to enter full text (letters + numbers + special characters) on devices where the number of keys or the keyboard area is limited. Letter-frequency data is used for assigning letters to the positions of a 3x3 matrix on keys, enhancing the entry of the most frequent Letters performed by a double-click. Less frequent letters and characters ...

**Keywords:** Fitts' law, keypad input, mobile phones, mobile systems, pen-based, soft keyboard, stylus input, text entry

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